



PTO/SB/21 (03-03)

Approved for use through 04/30/2003. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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**TRANSMITTAL
FORM**

(to be used for all correspondence after initial filing)

Total Number of Pages in This Submission

10

Application Number

10/017,111

Filing Date

12/14/2001

First Named Inventor

MATZ

Art Unit

3622

Examiner Name

ALVAREZ

Attorney Docket Number

BS01372

ENCLOSURES (Check all that apply)

Fee Transmittal Form



Fee Attached



Amendment/Reply



After Final



Affidavits/declaration(s)



Extension of Time Request



Express Abandonment Request



Information Disclosure Statement



Certified Copy of Priority Document(s)

Response to Missing Parts/
Incomplete ApplicationResponse to Missing Parts
under 37 CFR 1.52 or 1.53

Drawing(s)



Licensing-related Papers



Petition

Petition to Convert to a
Provisional Application

Power of Attorney, Revocation



Change of Correspondence Address



Terminal Disclaimer



Request for Refund



CD, Number of CD(s) _____

After Allowance Communication
to a Technology Center (TC)Appeal Communication to Board
of Appeals and Interferences
Appeal Communication to TC
(Appeal Notice, Brief, Reply Brief)

Proprietary Information



Status Letter

Other Enclosure(s) (please
Identify below):

Remarks

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENTFirm
or
Individual

Scott P. Zimmerman

Signature

Date

28 January 2005

CERTIFICATE OF TRANSMISSION/MAILING

I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, Washington, DC 20231 on this date: 28 January 2005

Typed or printed

Scott P. Zimmerman

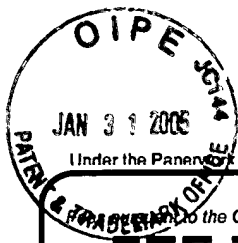
Signature

Date

28 January 2005

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Washington, DC 20231.

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PTO/SB/17 (12-04v2)

Approved for use through 07/31/2006. OMB 0651-0032

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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Effective on 12/08/2004.

Under the Consolidated Appropriations Act, 2005 (H.R. 4818).

FEE TRANSMITTAL

For FY 2005

☐ Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT (\$) 180.00

Complete if Known

Application Number	10/017,111
Filing Date	12/14/2001
First Named Inventor	MATZ
Examiner Name	ALVAREZ
Art Unit	3622
Attorney Docket No.	BS01372

METHOD OF PAYMENT (check all that apply)☒ Check ☐ Credit Card ☐ Money Order ☐ None ☐ Other (please identify): _____☐ Deposit Account Deposit Account Number: _____ Deposit Account Name: _____

For the above-identified deposit account, the Director is hereby authorized to: (check all that apply)

☐ Charge fee(s) indicated below ☐ Charge fee(s) indicated below, except for the filing fee
☐ Charge any additional fee(s) or underpayments of fee(s) under 37 CFR 1.16 and 1.17 ☐ Credit any overpayments

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

FEE CALCULATION**1. BASIC FILING, SEARCH, AND EXAMINATION FEES**

Application Type	FILING FEES		SEARCH FEES		EXAMINATION FEES		Fees Paid (\$)
	Fee (\$)	Small Entity Fee (\$)	Fee (\$)	Small Entity Fee (\$)	Fee (\$)	Small Entity Fee (\$)	
Utility	300	150	500	250	200	100	
Design	200	100	100	50	130	65	
Plant	200	100	300	150	160	80	
Reissue	300	150	500	250	600	300	
Provisional	200	100	0	0	0	0	

2. EXCESS CLAIM FEES**Fee Description**

Each claim over 20 (including Reissues)

Fee (\$)	Small Entity Fee (\$)
50	25
200	100
360	180

Each independent claim over 3 (including Reissues)

Multiple dependent claims

Total Claims	Extra Claims	Fee (\$)	Fee Paid (\$)
- 20 or HP =	x	=	

HP = highest number of total claims paid for, if greater than 20.

Indep. Claims	Extra Claims	Fee (\$)	Fee Paid (\$)
- 3 or HP =	x	=	

HP = highest number of independent claims paid for, if greater than 3.

Multiple Dependent Claims	
Fee (\$)	Fee Paid (\$)

3. APPLICATION SIZE FEE

If the specification and drawings exceed 100 sheets of paper (excluding electronically filed sequence or computer listings under 37 CFR 1.52(e)), the application size fee due is \$250 (\$125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).

Total Sheets	Extra Sheets	Number of each additional 50 or fraction thereof	Fee (\$)	Fee Paid (\$)
- 100 =	/ 50 =	(round up to a whole number) x	=	

4. OTHER FEE(S)

Non-English Specification, \$130 fee (no small entity discount)

Fees Paid (\$)

Other (e.g., late filing surcharge): SUPPLEMENTAL IDS FEE 1.17 (p)

180.00

SUBMITTED BY

Signature		Registration No. (Attorney/Agent) 41,390	Telephone (919) 387-6907
Name (Print/Type)	Scott P. Zimmerman	Date 28 January 2005	

This collection of information is required by 37 CFR 1.136. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 30 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

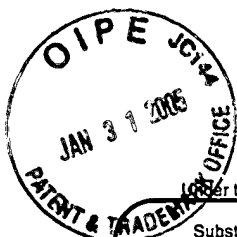
Director:

The Assignee respectfully requests entry and consideration of the references listed on the enclosed PTO 1449 Forms. Because this Supplemental Information Disclosure Statement is submitted after a first office action has issued, the Assignee herewith includes the 37 C.F.R. § 1.17 (p) fee of \$180.

If the Office has any questions, the Office is invited to contact the undersigned at (919) 387-6907 or scott@wzpatents.com.

Respectfully submitted,

Scott P. Zimmerman, Reg. No. 41,390
Attorney for Assignee



PTO/SB/08A (08-03)

Approved for use through 07/31/2006. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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Substitute for form 1449/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 4 of 10**Complete if Known**

Application Number	10/017,111
Filing Date	12/14/2001
First Named Inventor	MATZ
Art Unit	3622
Examiner Name	ALVAREZ
Attorney Docket Number	BS01372

U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
		US- 5,948,061	9/7/1999	Merriman et al.	
		US- 5,794,210	8/11/1998	Goldhaber et al.	
		US- 5,724,521	3-1998	Dedrick	
		US- 5,892,536	4-1999	Logan	
		US- 5,600,364	2-1997	Hendricks	
		US- 6,282,713	8-2001	Kitsukawa	
		US- 6,477,704	11-2002	Cremia	
		US- 5,389,964	2-1995	Oberle	
		US- 6,002,393	12-1999	Hite	
		US- 4,912,552	3-1990	Allison	
		US- 6,446,261	9-2002	Rosser	
		US- 5,848,396	12-1998	Gerace	
		US- 5,948,061	9-1999	Merriman	
		US- 6,100,916	8-2000	August	
		US- 6,314,577	11/6/2001	Pocock	
		US- 5,892,508	4/6/1999	Howe	
		US- 5,818,438	10/6/1998	Howe	
		US- 6,076,094	6/13/2000	Cohen	
		US- 6,172,674	1/9/2001	Etheridge	

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T ⁶
		Country Code ³ Number ⁴ Kind Code ⁵ (if known)				
		WO 99 52285A	10/14/1999			
		WO 99 04561A	1/28/1999			
		WO 99 45702A	9/10/1999			
		EP 0 424 648A	2/2/1991			
		EP 1162840 A2	12-2001	Wilson		

Examiner
SignatureDate
Considered

*EXAMINER: (initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet

of 10

Complete if Known

Application Number	10/017,111
Filing Date	12/14/2001
First Named Inventor	MATZ
Art Unit	3622
Examiner Name	ALVAREZ
Attorney Docket Number	BS01372

U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
		US- 6,252,586	6/26/2001	Freeman	
		US- 5,661,516	8/1997	Carles	
		US- 5,774,170	6-1998	Hite	
		US- 5,758,257	5-1998	Herz	
		US- 5,410,344	4-1995	Graves	
		US- 5,754,393	5-1998	Herz	
		US- 5,838,314	11-1998	Neel	
		US- 6,029,045	1-2001	Alexander	
		US- 6,463,468	10-2002	Buch	
		US- 6,496,818	12-2002	Ponte	
		US- 6,507,839	1-2003	Ponte	
		US- 6,510,417	1-2003	Woods	
		US- 6,631,360	10-2003	Cook	
		US- 4,602,279	7-1986	Freeman	
		US- 5,446,919	8-1995	Wilkins	
		US- 5,585,865	12-1996	Amano	
		US- 5,758,259	5-1998	Lawler	
		US- 5,861,906	1-1999	Dunn	
		US- 5,973,683	10-1999	Cragun	

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T ⁶
		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)				

Examiner
SignatureDate
Considered

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

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Substitute for form 1449/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Complete if Known

Application Number	10/017,111
Filing Date	12/14/2001
First Named Inventor	MATZ
Art Unit	3622
Examiner Name	ALVAREZ
Attorney Docket Number	BS01372

Sheet 6 of 10**U. S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
		US- 6,005,597	12-1999	Barrett	
		US- 6,314,568	11-2001	Ochiai	
		US- 6,457,010	9-2002	Eldering	
		US- 2002/0143647	10-2002	Headings	
		US- 2002/0199197	12-2002	Winter	
		US- 5,543,911	7-1996	Levitan	
		US- 2003/0067554	4-2003	Klarfield	
		US- 6,202,210	3-2001	Ludtke	
		US- 5,630,119	5/13/1997	Aristides	
		US- 5,917,481	6/29/1999	Rzeszewski	
		US- 5,983,227	11/9/1999	Nazem	
		US- 5,038,211	8/6/1991	Hallenbeck	
		US- 5,559,548	9/24/1996	Davis	
		US- 6,463,585	10/2002	Hendricks	
		US- 6,505,348	1-2003	Knowles	
		US- 6,185,614	2/2001	Cuomo	
		US-			
		US-			
		US-			

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T ⁶
		Country Code ³ Number ⁴ Kind Code ⁵ (if known)				

Examiner
SignatureDate
Considered

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PTO/SB/08A (08-00)

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Substitute for form 1449A/PTO <h2 style="text-align: center; margin: 10px 0;">INFORMATION DISCLOSURE STATEMENT BY APPLICANT</h2> <p style="text-align: center; margin-top: 10px;">(use as many sheets as necessary)</p>			Complete If Known		
			Application Number	10/017,111	
			Filing Date	12/14/2001	
			First Named Inventor	MATZ	
			Group Art Unit	3622	
			Examiner Name	ALVAREZ	
			Attorney Docket Number	BS01372	
Sheet	1	of	10		

U.S. PATENT DOCUMENTS						
Examiner Initials *	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
		US- 3,798,610		Bliss et al.	03-19-1974	
		US- 3,886,302		Kosco	05-27-1975	
		US- 4,130,833		Chomet	12-19-1978	
		US- 4,258,386		Cheung	03-24-1981	
		US- 4,361,851		Asip et al.	11-30-1982	
		US- 4,488,179		Kruger et al.	12-11-1984	
		US- 4,566,030		Nickerson et al.	01-21-1986	
		US- 4,567,591		Gray et al.	02-28-1986	
		US- 4,598,288		Yarbrough et al.	07-01-1986	
		US- 4,688,248		Tomizawa	08-18-1987	
		US- 4,689,661		Barbieri et al.	08-25-1987	
		US- 4,697,209		Kiewitt et al.	09-1987	
		US- 4,720,873		Goodman et al.	01-19-1988	
		US- 4,816,904		McKenna et al.	03-28-1989	
		US- 4,890,322		Russell, Jr.	12-2601989	
		US- 4,912,552		Allison, III. et al.	03-27-1990	
		US- 5,010,585		Garcia	04-23-1991	
		US- 5,046,090		Walker et al.	09-03-1991	
		US- 5,046,092		Walker et al.	09-03-1991	
		US- 5,055,924		Skutta	10-08-1991	
		US- 5,173,900		Miller et al.	12-22-1992	
		US- 5,191, 645		Carlucci et al.	03-02-1993	
		US- 5,208,665		McCalley et al.	05-04-1993	
		US-5,247,347		Litteral et al.	09-21-1993	
		US- 5,249,044		VonKohorn	09-28-1993	
		US- 5,251,324 A		McMullan	10-1993	
		US- 5,287,181		Holman	02-15-1994	
		US- 5,335,277		Harvey et al.	08-02-94	
		US- 5,339,315		Maeda et al.	08-16-1994	
		US- 5,343,240		Yu	08-30-1994	
		US- 5,374,951		Welsh	12-20-1994	
		US- 5,357,276		Banker et al.	10-18-1994	
		US- 5,404,393		Remillard	04-04-1994	
		US- 5,410,326		Goldstein	04-1995	
		US- 5,446,919		Wilkins, Jeff K.	08-1995	
		US- 5,446,490		Blahut et al.	08-29-1995	
		US- 5, 500,681		Jones	03-1996	

Examiner Signature		Date Considered	
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¹ EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

² Unique citation designation number. ² Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

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PTO/SB/08A (08-00)



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U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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Substitute for form 1449A/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>				Application Number	10/017,111
				Filing Date	12/14/2001
				First Named Inventor	MATZ
				Group Art Unit	3622
				Examiner Name	ALVAREZ
Sheet 8	Of 10	Attorney Docket Number BS01372			

U.S. PATENT DOCUMENTS						
Examiner Initials *	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
		US- 5,585,838		Lawler et al.	12-17-1996	
		US- 5,608,448		Smoral et al.	03-04-1997	
		US- 5,619,247 A		Russo	04-1997	
		US- 5,661,516		Carles, John B.	08-1997	
		US- 5,698,670		Matty	10-06-1987	
		US- 5,724,525		Beyers II et al.	03-1998	
		US- 5,752,159		Faust et al.	05-1998	
		US- 5,758,257		Herz et al.	05-1998	
		US- 5,774,170		Hite et al.	06-1998	
		US- 5,778,182		Cathey et al.	07-07-1998	
		US- 5,818,438 B1		Howe et al.	10-06-1998	
		US- 5,892,508 B1		Howe et al.	04-06-1999	
		US- 6,015,344		Kelly et al.	01-18-2000	
		US- 6,076,094 B1		Cohen et al.	06-13-2000	
		US- 6,134,531		Trewit et al.	10-2000	
		US- 6,172,674 B1		Etheredge et al.	01-09-2001	
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Examiner Initials*	Cite No. ¹	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ₆
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Of

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Application Number	10/017,111
Filing Date	12/14/2001
First Named Inventor	MATZ
Group Art Unit	3622
Examiner Name	ALVAREZ
Attorney Docket Number	BS01372

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	Application Number	10/017,111
	Filing Date	12/14/2001
	First Named Inventor	MATZ
	Group Art Unit	3622
	Examiner Name	ALVAREZ
	Attorney Docket Number	BS01372
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